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TITLE: PRODUCTION OF WATER-SOLUBLE
GRAFTED POLYMER
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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To provide a method, for producing a water-soluble grafted polymer having a high graft degree by grafting monoethylenic unsaturated monomers consisting mainly of (meth)acrylic acid to a polyether in a high content.

CONSTITUTION: This method for producing a water-soluble grafted polymer comprises graft-polymerizing (B) a monomer component comprising (b1) 40-100mol.% of (meth)acrylic acid and (b2) 0-60mol.% of a copolymerizable monoethylenic unsaturated monomer to (A) a polyether compound containing 180mol.% of ethylene oxide as constituting units and having a number-average mol. wt. of ≥ 200 in an amount (B) of ≥ 25 wt.% based on the polyether compound (A) in the presence of a polymerization initiator at $\geq 100^{\circ}\text{C}$ substantially without using a solvent.

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